

FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)				ATTY DOCKET NO. 03500.015727.1		APPLICATION NO. NYA	
				APPLICANT TAKEO TSUKAMOTO			
				FILING DATE FILED HEREWITH		GROUP 2879 2821	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AMH	6,624,589	9/03	Kitamura et al.	315	169.3		
AMH	6,628,053	9/03	Den et al.	313	310		
AMH	6,626,719	9/03	Ono et al.	445	24		
AMH	2002/0060516 A1	5/02	Kawate et al.	313	495		
AMH	2002/0031972 A1	3/02	Kitamura et al.	445	3		
AMH	2002/0057045 A1	5/02	Tsukamoto	313	309		
AMH	2002/0047513 A1	4/02	Nomura	313	495		
AMH	2003/0006684 A1	1/03	Kawate et al.	313	311		
AMH	2003/0048055 A1	3/03	Ishikura et al.	313	311		
AMH	2003/0057860 A1	3/03	Tsukamoto	315	169.3		
AMH	6,087,765	7/00	Coll et al.	313	309		
AMH	5,872,422	2/16/99	Xu et al.	313	311		
AMH	2002/0009637	1/02	Murakami et al.	429	213		
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT	
AMH	WO 01/93292	12/01	PCT				
AMH	10-149760	6/98	JAPAN			ABSTRACT	
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER				DATE CONSIDERED 8/3/05			

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AmH	4,728,851	3/88	Lambe	313	309		
AmH	4,904,895	2/90	Tsukamoto et al.	313	336		
AmH	5,986,389	11/99	Tsukamoto	313	309		
AmH	6,147,449	11/00	Iwasaki et al.	313	495		
AmH	6,171,162	1/01	Iwasaki et al.	445	6		
AmH	6,184,610	2/01	Shibata et al.	313	309		
AmH	6,231,413	5/01	Tsukamoto	445	24		
AmH	6,246,168	6/01	Kishi et al.	313	495		
AmH	6,288,494	9/01	Tsukamoto et al.	315	169.1		
AmH	5,982,091	11/99	Konishi	313	495		

FOREIGN PATENT DOCUMENTS							
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT		
AmH	0 614 209 A1	9/94	EPO				
AmH	8-115652	5/96	JAPAN		ABSTRACT		
AmH	7-6714	1/95	JAPAN				
AmH	0 290 026	11/88	EPO		ENGLISH		
AmH	0 535 953 A2	4/93	EPO		ENGLISH		

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)	
AmH	C.A. Spindt et al., <i>Physical Properties of thin-Film Field Emission Cathodes with Molybdenum Cones</i> , Journal of Applied Physics, Vol. 47, No. 12 (1976) pp.5248-5263

EXAMINER <i>[Signature]</i>	DATE CONSIDERED 08/03/05
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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AMH	5,773,921	06/30/98	Keesman et al.	313	309	
AMH	5,973,444	10/26/99	Xu et al.	313	309	
AMH	5,935,639	8/10/99	Sullivan et al.	427	78	
AMH	4,956,578	9/11/90	Shimizu et al.	315	3	
AMH	5,185,554	2/9/93	Nomura et al.	313	495	
AMH	6,448,709	9/02	Chuang et al.	313	497	
AMH	6,204,597	03/01	Xie et al.	313	310	
FOREIGN PATENT DOCUMENTS						
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
AMH	WO 89/07163	08/10/89	Japan			English
AMH	WO 90/07023	06/28/90	PCT			English
AMH	JP 08-115652	05/07/96	Japan			Abst. & Transl.
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)						
AMH	R.T.K. Baker et al., "Formation of Carbonaceous Deposits from the Platinum-Iron Catalyzed Decomposition of Acetylene," 37 J. Catal. 101-105 (1975).					
AMH	R.T.K. Baker, "Catalytic Growth of Carbon Filaments," 27 (3) Carbon 315-323 (1989).					
AMH	S. Iijima, "Helical Microtubules of Graphitic Carbon," Nature, Vol. 345, 56-58 (1991).					
AMH	T. W. Ebbesen et al., "Large-Scale Synthesis of Carbon Nanotubes," Nature, Vol. 358, 220-222 (1992).					
AMH	W. A. DeHeer et al., "Aligned Carbon Nanotube Films: Production and Optical and Electronic Properties," Science Vol. 268, 845-847 (1995).					
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AmH		5,577,943	11/96	Vickers et al.	445	24	
AmH		2002/136896	09/26/00	Takikawa et al.	428	408	
AmH		5,192,240	03/09/93	Komatsu	445	24	
AmH		5,214,346	05/25/93	Komatsu	313	309	
AmH		5,382,867	01/17/95	Maruo et al.	313	309	
AmH		5,612,587	03/18/97	Itoh et al.	313	309	
AmH		6,313,572	11/06/01	Yamada	313	310	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
AmH		0 758 028 A2	02/12/97	EPO	D01F	9/127	English
AmH		WO 98/05920	02/12/98	PCT	G01B	7/34	English
AmH		0 394 698 A2	10/31/90	EPO	H01J	1/30	English
AmH		2000/277003	06/10/00	Japan	H01J	9/02	No
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
AmH		T. Guo et al., "Catalytic Growth of Single- Walled Nanotubes by Laser Vaporization," Chem Phys. Lett., Vol. 243, 49-54 (1995).					
AmH		A. G. Rinzier et al., "Unraveling Nanotubes: Field Emission from an Atomic Wire," Science, Vol. 269, 1550-1553 (1995).					
AmH		W. A. DeHeer et al., "A Carbon Nanotube Field-Emission Electron Source," Science, Vol. 270, 1179-1180 (1995).					
AmH		T. Kyotani et al., "Preparation of Ultrafine Carbon Tubes in Nanochannels of an Anodic Aluminum Oxide Film," Chem. Mater., Vol. 8, 2109-2113 (1996).					
AmH		A. Thess et al., "Crystalline Ropes of Metallic Carbon Nanotubes," Science, Vol. 273 483-487 (1996).					
EXAMINER <i>AmH</i>				DATE CONSIDERED <i>08/03/05</i>			

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AMH	6,135,839	10/24/00	Iwase et al.	445	24	
AMH	2002/0031972	3/02	Kitamura et al.	445	3	
AMH	6,400,091	6/02	Deguchi et al.	315	169.1	
AMH	6,420,726	7/02	Choi et al.	257	10	

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
AMH	0 797 233 A2	09/24/97	EPO	H01J	1/30	English
AMH	0 980 089 A1	02/16/00	EPO	H01J	1/30	English
AMH	0 986 084 A2	03/15/00	EPO	H01J	1/30	English
AMH	1 117 118 A1	07/08/01	EPO	H01J	1/312	English
AMH	0 716 439	06/12/96	EPO	H01J	3/02	English
AMH	1 113 478 A1	7/01	EPO			
AMH	2-112125	04/24/90	JAPAN	H01J	1/30	Abst. & corresponding U.S. Patent 4,956,578

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AMH	H. Dai et al., "Single-Wall Nanotubes Produced by Metal-Catalyzed Disproportionation of Carbon Monoxide," Chem. Phys. Lett., Vol. 260, 471-475 (1996).
	H. Dai et al., "Nanotubes as Nanoprobes in Scanning Probe Microscopy," Nature, Vol. 384, 147-150 (1996).
AMH	A. C. Dillon et al., "Storage of Hydrogen in Single- Walled Carbon Nanotubes," Nature, Vol.386, 377-379 (1997).
AMH	W.P. Dyke et al., "Field Emission", <i>Advances in Electronics and Electron Physics</i> , Vol. 8, (1956) pp. 89-185
AMH	C.A. Spindt et al., "Physical Properties of Thin-Film Field Emission Cathodes with Molybdenum Cones", <i>Journal of Applied Physics</i> , Vol. 47, No. 12 (1976), pp. 5248-5263
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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
AMH	3-20941	01/29/91	JAPAN	H01J	31/12	Abst. & corresponding U.S. Patent 5,185,554
AMH	5-211029	08/20/93	JAPAN	H01J	1/30	No
AMH	8-264109	10/11/96	JAPAN	H01J	1/30	Abst.
AMH	9-82214	3/28/97	JAPAN	H01J	1/30	Abst. & European Equivalent 0 716 439
AMH	1 113 478 A1	7/02	EPO			
AMH	1 122 344 A3	8/01	EPO			
AMH	A0 913 508	05/06/99	EPO	D01F	9/127	English
AMH	09-188600	07/22/97	Japan	C30B	29/62	Abst.
AMH	A1 443 865	08/28/91	EPO	H01J	21/10	English
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)						
AMH	C.A. Mead, "Operation of Tunnel-Emission Devices", <i>Journal of Applied Physics</i> , Vol. 32, No. 4, (1961), pp. 646-652					
AMH	Toshiaki Kusunoki et al., "Fluctuation-Free Electron Emission from Non-Formed Metal-Insulator-Metal (MIM) Cathodes Fabricated by Low Current Anodic Oxidation", <i>Japanese Journal of Applied Physics</i> , Vol. 32 No. 11B, (1993), p. L1695-1697					
AMH	M.I. Elinson et al., "The Emission of Hot Electrons and the Field Emission of Electrons from Tin Oxide", <i>Radio Engineering and Electronic Physics</i> , (1965) pp. 1290-1296					
AMH	G. Dittmer, "Electrical Conduction and Electron Emission of Discontinuous Thin Films", <i>Thin Solid Films</i> , Vol. 9, (1972) pp. 317-329					
EXAMINER <i>Amie M. R. [Signature]</i>			DATE CONSIDERED 08/03/05			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		2001/0006232 A1	7/01	Choi et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
<i>AmH</i>		04-212236	03/08/92	Japan	H01J	1/30	No
<i>AmH</i>		03-295131	12/26/91	Japan	H01J	1/30	No
<i>AMH</i>		A2 535 953	04/07/93	EPO	H01J	1/30	English
<i>AmH</i>		05-159696	06/25/93	Japan	H01J	1/30	No
<i>AmH</i>		05-198253	08/06/93	Japan	H01J	1/30	No
<i>AMH</i>		05-274997	10/22/93	Japan	H01J	1/30	Abst.
<i>AmH</i>		11-232997	08/27/99	Japan	H01J	1/30	No
<i>AMH</i>		A1 936 650	08/18/99	EPO	H01J	3/02	English
<i>AmH</i>		10-289650	10/27/98	Japan	H01J	1/30	No
<i>AMH</i>		A1 871 195	10/14/98	EPO	H01J	1/30	English
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>AMH</i>	M. Hartwell et al., "Strong Electron Emission from Patterned Tin-Indium Oxide Thin Films", IEEE Trans. Ed. Conf., (1983) pp.519-521						
<i>AMH</i>	Hisashi Araki et al., "Electroforming and Electron Emission of Carbon Thin Films, Journal of the Vacuum Society of Japan, 1983 (with English Abstract on p. 22)						
<i>AMH</i>	Rodriguez et al., "Catalytic Engineering of Carbon Nanostructures," Langmuir 11, 3862-3866 (1995).						
EXAMINER <i>AmH</i>				DATE CONSIDERED <i>08/03/05</i>			

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U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AmH	6,472,814 B1	10/02	Yamanobe et al.	313	495	11/13/98
AmH	5,847,495	12/98	Yamanobe et al.	313	310	
AmH	5,066,883	11/91	Yoshioka et al.	313	309	
AmH	6,455,021 B1	09/02	Saito	423	447.3	07/20/99
AmH	6,471,936 B1	10/02	Chen et al.	423	658.2	03/02/00
AmH	6,283,812 B1	09/01	Jin et al.	445	24	01/25/99
AmH	4,816,289	03/89	Komatsu et al	423	447.3	
AmH	5,443,859	08/95	Nagata	427	122	
AmH	5,618,875	04/97	Baker et al.	524	495	
AmH	5,690,997	11/97	Grow	427	249	
AmH	6,129,602	10/00	Yamanobe	445	24	
AmH	6,228,904 B1	05/01	Yadav et al.	523	210	
AmH	6,333,016 B1	12/01	Resasco et al.	423	447.3	9/3/99
AmH	6,413,487 B1	07/02	Resasco et al.	423	447.3	6/2/00
AmH	6,445,006 B1	09/02	Brandes et al.	257	76	7/27/99
AmH	5,981,305	11/99	Hattori	438	20	
AmH	6,290,564 B1	9/01	Talin et al.	445	50	9/30/99
AmH	5,458,784	10/95	Baker et al.	210	674	5/3/00
AmH	6,331,690 B1	12/01	Yudasaka et al.	219	121.6	
AmH	5,965,267	10/99	Nolan et al.	428	408	
EXAMINER <i>Amue M. H.</i>			DATE CONSIDERED <i>08/03/05</i>			

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>AmH</i>	6,390,612 B1	05/02	Kotaki et al.	347	85	
<i>AmH</i>	5,872,541	02/99	Yoshioka et al.	345	74	
<i>AmH</i>	5,543,684	08/96	Kumar et al.	313	495	
<i>AmH</i>	5,551,903	9/96	Kumar et al.	445	24	
<i>AmH</i>	4,900,483	2/90	Witzke et al.	264	29.2	
<i>AmH</i>	5,500,200	3/96	Mandeville et al.	423	447.3	
<i>AmH</i>	5,726,524	3/98	Debe	313	309	
<i>AmH</i>	2002/0009637 A1	1/24/02	Murakami et al	429	213	2/5/01
<i>AmH</i>	2002/0047562 A1	04/25/02	Kitamura et al.	315	169.3	05/29/01
<i>AmH</i>	5,770,918	6/98	Kawate et al.	313	495	
<i>AmH</i>	5,185,554	2/93	Nomura et al.	313	495	
<i>AmH</i>	2002/0146958 A1	10/02	Ono et al.	445	24	
<i>AmH</i>	2003/0048056 A1	3/03	Kitamura et al.	313	311	
<i>AmH</i>						
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AMH	11-194134	07/99	Japan	G01N	37/00	Abst., European Equivalent 0 913 508 A3
AMH	11-139815	05/99	Japan	C01B	31/02	Abst.
AMH	0 535 953 B1	01/96	EPO	H01J	1/30	English
AMH	1 122 344 A2	08/01	EPO	D01F	9/127	English
AMH	0 758 028 B1	09/11/02	EPO	D01F	9/127	English
AMH	11-232997	08/27/99	Japan	H01J	1/30	European Counterpart 0 936 650
AMH	1 022 763 A1	7/00	EPO	H01J	9/02	English
AMH	2000-223005	8/00	Japan	H01J	1/304	Abst. & Counterpart U.S. Patent 6,283,812
AMH	0 836 217 A1	04/98	EPO	H01J	29/94	English
AMH	WO 99/58748	11/99	PCT	D01F	9/127	English
AMH	CN 1181607A	5/98	China			English Counterparts 0 836 217 & 99/58748
AMH	1 102 299 A1	5/01	EPO	H01J	1/30	English
AMH	0 913 508 A3	5/99	EPO	D01F	9/127	English
AMH	1 096 533 A1	5/01	EPO	H01J	9/02	English
AMH	WO 01/26130	4/01	PCT	H01J	9/02	English
AMH	GB 2 308 495 A	6/97	UK	H01J	1/20	English
AMH	1 120 877 A1	8/01	EPO	H02G	5/06	English

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AMH	1-309242	12/89	Japan	H01J	37/06	Abst.
AMH	11-162334	6/99	JAPAN	H01J	9/02	Abst.
AMH	2000-57934	2/00	JAPAN	H01J	1/304	Abst.
AMH	2000-86216	3/00	JAPAN	C01B	31/02	Abst.
AMH	2000-90809	3/00	JAPAN	H01J	1/304	Abst.
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EXAMINER <i>[Signature]</i>	DATE CONSIDERED <i>08/03/05</i>
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO 1449 (<i>modified</i>) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		ATTY DOCKET NO. 03500.015727.1	APPLICATION NO. NYA
		APPLICANT TAKEO TSUKAMOTO	
		FILING DATE FILED HEREWITH	GROUP 2879 2821
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